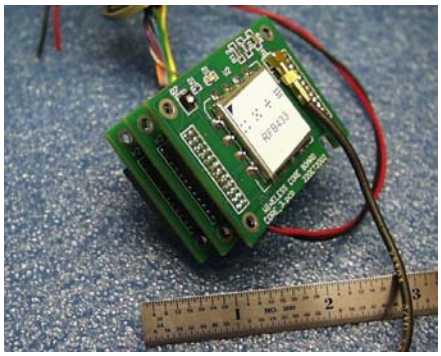
Success Story

Telesto-Secure Uses NASA Wireless Technology to Enhance Security



Description of Innovation

Telesto-Secure, a division of Laura Lee Desrosiers Curtis LLC of McLean, Virginia, has licensed NASA's "Wireless Instrumentation System and Power Management Scheme" (KSC-12386). This low-cost wireless data acquisition and control system was developed at Kennedy Space Center (KSC). The system is designed with sensors that operate in a network configuration, allowing for decisions to be made at the sensor level rather than at a centralized location. A modulate design adds flexibility to the system by allowing it to be easily reconfigured for different types of sensors. The system employs low-power radio frequency (RF) communication links and meets stringent requirements for reliability, data integrity, and power consumption. The power management scheme allows the wireless remote stations to be operated on battery power, a combination of efficient and smart power utilization. Laura Lee Desrosiers Curtis is a woman-owned, small business that has three focus areas: Telesto-Secure: IT security and surveillance applications for the Federal and State governments; Telesto-Capital: acquisition of small or mid-market Federal IT service providers and IPR commercialization for security software and wireless technologies; and Telesto-Media: applied strategies, functional and operational process know-how and thought-pieces geared to C-Level of high-technology and telecomm sectors.

Commercial Benefits

The "Wireless Instrumentation System and Power Management Scheme" has many applications in aerospace and can be used by Kennedy Space Center and other NASA centers. Because this system can be installed in locations where cabling is not an option, the system is attractive to many different commercial industries as well. For instance, the technology can provide enhanced wireless data acquisition and control for the department of defense as a data communication links for test ranges and launch facilities; in commercial automation systems by providing real-time monitoring and control of security and surveillance systems, alarms, HVAC, etc.; by utilities companies for remote meter reading; in manufacturing and distribution as an enhancement to industrial automation; and in health care as wireless monitoring equipment.

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Partner Contribution

Telesto Secure engineering staff have worked with product manufacturing engineers, NASA and its contractor's engineers and their SI Channel Partner engineers to devise sector specific and customer specific products and solutions in the healthcare and homeland security markets based on the underlying technology developed at KSC. Final product design will be prototyped and tested by a Leading Electronics and Wireless Contract Manufacturer. Laura Lee Desrosiers has invested 1.2 million dollars into the development of the xSENSE family of application specific sensors for the security and military market.

ITTP Role

On April 23, 2004 the KSC Technology Transfer Office was able to successfully complete the negotiation and signing of a Partially Exclusive Patent License Agreement with Telesto-Secure (Laura Lee Desrosiers Curtis LLC) for the manufacturing and sale of the "Wireless Instrumentation System and Power Management Scheme Therefore" (KSC-12386). Laura Lee Desrosiers Curtis became aware of the technology through the joint marketing efforts Wendy Tronka, National Technology Transfer Center (NTTC), and Mark Obenshain, Research Triangle Institute (RTI). The lead was forwarded to Brian Sauser, ASRC Aerospace, at KSC to help facilitate and expedite the prosecution, negotiation and execution of the license agreement. NASA's David Makufka was the ITTP lead on this partnership at Kennedy Space Center.

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